ISMRM | DACH CHAPTER

MAX PLANCK INSTITUTE FOR BIOLOGICAL CYBERNETICS

DACH-ISMRM Annual Meeting 2024

Poster Session Wednesday, September 04, 16:30 - 17:45

Hyperpolarization and Metabolic Imaging

P101	Martin Sandbrink	*Implementation of SLIC-SABRE hyperpolarization of 1-13C pyruvate*
P102	Maria Anikeeva	*Implementing a Xenon polarizer for in vitro and in vivo imaging*
P103	Aaron Diercks	*Metabolic imaging with deuterated Glucose (and HP pyruvate) in a colitis model*

MRI System Hardware and Technical Innovations

P201	Pavel Povolni	*A Low-Cost Magnetic Measurement System for Low-Field MRI Magnets based on a Motion Tracked Flexible-Joint Robot with 5 Degrees of Freedom*
P202	Harriet Wulff	*Automated Gas Delivery System for Parahydrogen-Induced Polarisation at up to 10 bar*
P203	Judith Samlow	*Easy Rebuildable Cubic 3-Axis Positioning Robot Based on Open-Source Hardware: Validated via Camera-Based Motion Tracking and Initial Application in Magnetic Low Field Mapping*
P204	Moritz Sander	*Inductively coupled coils for 1.5 T, 3 T and 7 T MRI*
P205	Sergej Maltsev	*SQUID based Method of Evaluating Noise Characteristics of High Temperature Superconductors used in Novel Low Field MRI Scanner Designs*

MRI Sequence Development and Optimization

P301	Chris Lippe	*CEST MRI multi-pool quantification through simplified model-based analysis*
P302	Jonathan Endres	*Direct Encoded Signal Control with Phase Distribution Graphs for readout-tailored multipulse pTx optimization*
P303	Franziska Lohrengel	*Implementing whole brain spectroscopy on a vendor agnostic pulse programming platform*
P304	Caroline Scheufler	*Optimization of multi-VENC compressed sensing 4D flow MRI for high-resolution neurovascular applications*
P305	Clemens Mey	*SNR requirements for quantitative frequency-modulated bSSFP*
P306	Clemens Mey	*T2 mapping based on frequency-modulated bSSFP*
P307	Fabian Müller	*The impact of fat-navigator resolution on motion parameter estimation accuracy*
P308	Jakob Schattenfroh	*Ultra-Low Frequency MR Elastography*

Clinical and Biological Applications

P401	Fiona Mankertz	*Association Between Arterial Hypertension and Spinal Degeneration: An MRI-Based Cross-Sectional Study*
P402	Sascha Santaniello	*Automatic evaluation of the properties of the glymphatic system using diffusion MRI data*
P403	Simon Mayr	*Cardiac CINE imaging at 0.55T – a comparison to 1.5T*
P404	Gisela Hagberg	*How similar is quantitative MRI in the human brain measured ex vivo and in vivo?*
P405	Ali Ajouz	*Impact of image registration and fibre orientation on the DTI-ALPS-index*
P406	Wolfgang Weber-Fahr	*Neurobiochemical correlates of long-term neuropsychiatric consequences of COVID-19 disease*
P407	Yan Ma	*Optogenetic fPET/fMRI Reveals Distinct Roles of the Substania Nigra in Motor and Cognitive Processes*
P408	Aayush Nepal	*Semi-Automated Segmentation Pipeline for Dynamic MRI Analysis of Knee Joint Kinematics*
P409	Aref Kalantari	*Tract masks for refined analysis of diffusion properties in motor tracts related to functional recovery after stroke in mice*
P410	Fatima Anum	*Unravelling yeast metabolism with real-time deuterium magnetic resonance spectroscopy*

https://www.tuebingen.mpg.de/dach-ismrm-2024